



# Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72205

Entry Year 2025

Acreage: 718

County Crawford

Management Area: High Sand Plains

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**Stand Examiner:** Joan Charlebois

**Legal Description:**

T27N R04W Sections 27, 34, 35

**Identified Planning Goals:**

To maintain riparian and forest health, structural and species diversity, and overall productivity while providing for sustainable multiple uses.

**Soil and topography:**

The west half of the compartment occupies predominantly Grayling sands on shallow to rolling terrain. Moving east toward the river, the terrain levels out and the soil type shifts to Croswell-AuGres sands. The river corridor and cedar swamps are on saturated organic soils such as Tawas-Lupton and AuSable-Bowstring mucks.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Private property west of the compartment is largely used for seasonal recreation. Both seasonal and year-round residences occur on the east side of the AuSable River. The Hanson Game Refuge is to the south. The east half of section 34 and section 35 west of the AuSable River were purchased with Land Trust funds in 1994. This area, informally known as the Williams Tract, will be managed in the future as part of the Upper AuSable Tract. A concrete slab remains at the former Williams cabin site on the AuSable River.

**Unique Natural Features:**

The mainstream of the AuSable, a designated Natural River, borders the compartment's east edge. There is the potential for rare birds and reptiles to occur along the riparian corridor, as well as for dry prairie plants to be found in the upland grassy openings.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

The AuSable River is a High Conservation Value Area (HCVA), with associated Cold Water Stream and Riparian Special Conservation Areas (SCA).

**Watershed and Fisheries Considerations:**

The mainstream of the AuSable is a high quality cold water trout stream. A Fisheries Division sand trap maintenance site is accessed through this compartment, and fish habitat has been enhanced through an on-going project of strategically placing trees within the stream channel.

**Wildlife Habitat Considerations:**

The compartment's oak, aspen and conifer cover types provide habitat for a variety of game and non-game wildlife species.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Marshall Sandstone. The Marshall has been used as a building stone in the past. The nearest gravel pit is located in Section 34 and potential is good on the upland areas. The entire Compartment is leased for oil and gas development. The nearest production is Beaver Creek Field, located seven miles to the south. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien.

**Vehicle Access:**

The Williams property was fenced when in private ownership and that fence was left in place after state acquisition in order to maintain the tract for walk-in public access. Vehicle traffic through the gate off Pollack Bridge Road is currently limited to resource management, powerline maintenance, and land-locked private property access. Holes cut in the fence and breached berms need to be re-closed.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Dispersed recreation opportunities include fishing, hiking, hunting, canoeing and wildlife viewing.

**Fire Protection:**

Existing trail roads provide adequate access for fire protection. Accessable water source points on the AuSable River include Pollack Bridge and the Fisheries Division sand trap.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

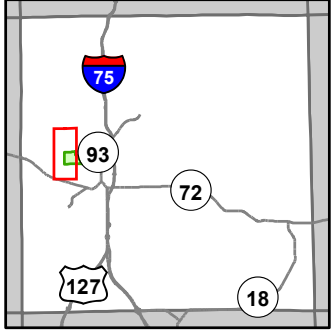
**The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

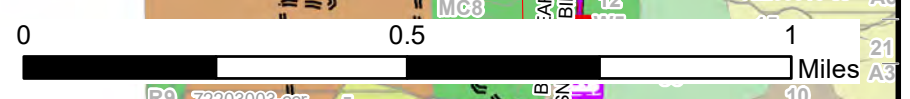
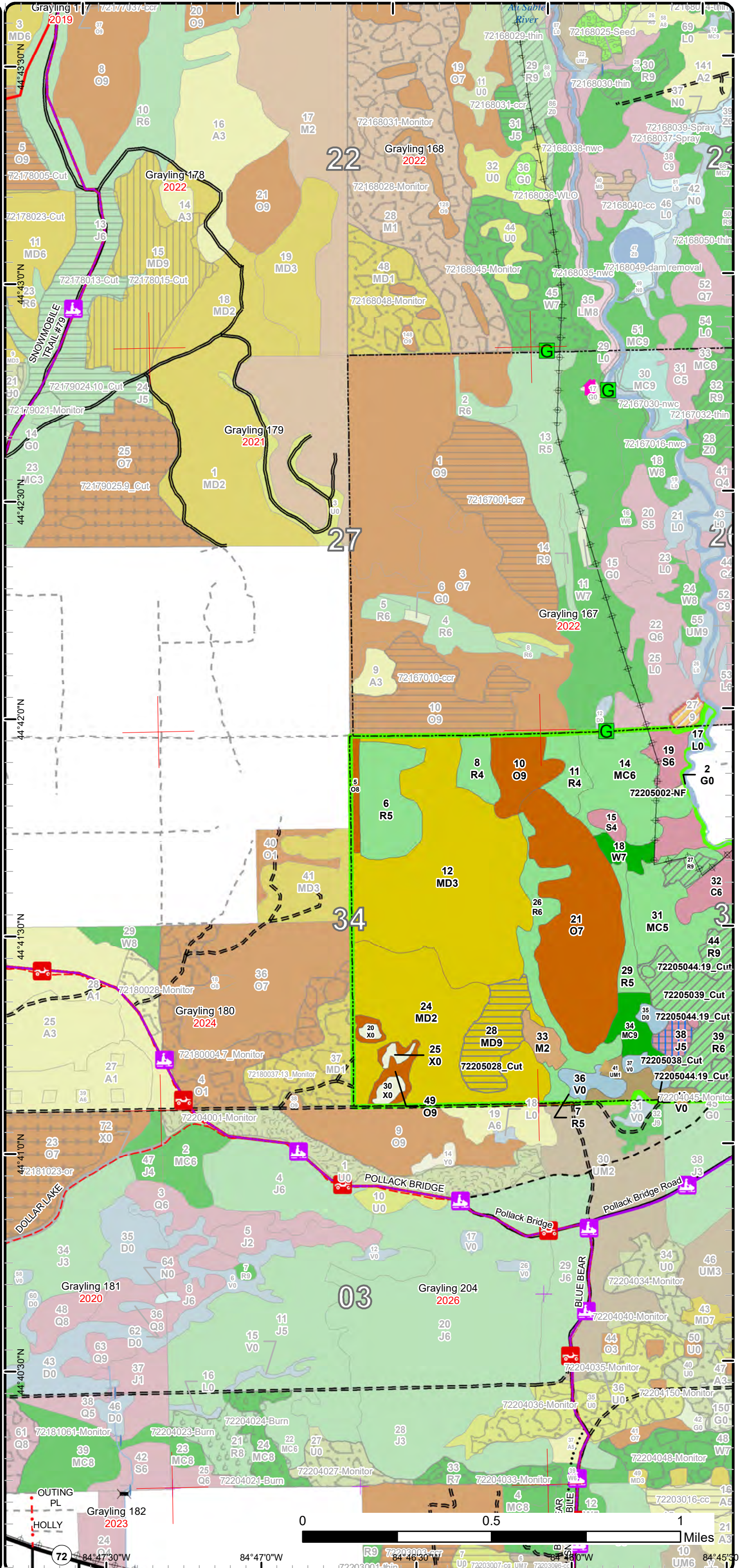


# Cover Type & Treatments Map

Compartment: 205  
 T27N, R03W, Sec. 22, 27, 34-35  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: High Sand Plains  
 YOE: 2025  
 Acres: 717.9 GIS Calculated  
 Examiner: Joan Charlebois  
 Map Revised: 11/27/2023  
 Map Phase: Post-Maps



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- Designated ATV
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- Lakes and Rivers
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- ▲ Berms
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- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



84°46'30"W 84°47'0"W 84°47'30"W 84°48'0"W 84°48'30"W 84°49'0"W 84°49'30"W 84°50'0"W  
 44°40'30"N 44°41'0"N 44°41'30"N 44°42'0"N 44°42'30"N 44°43'0"N

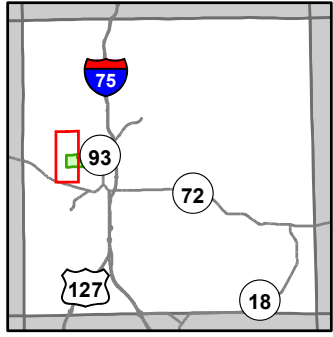




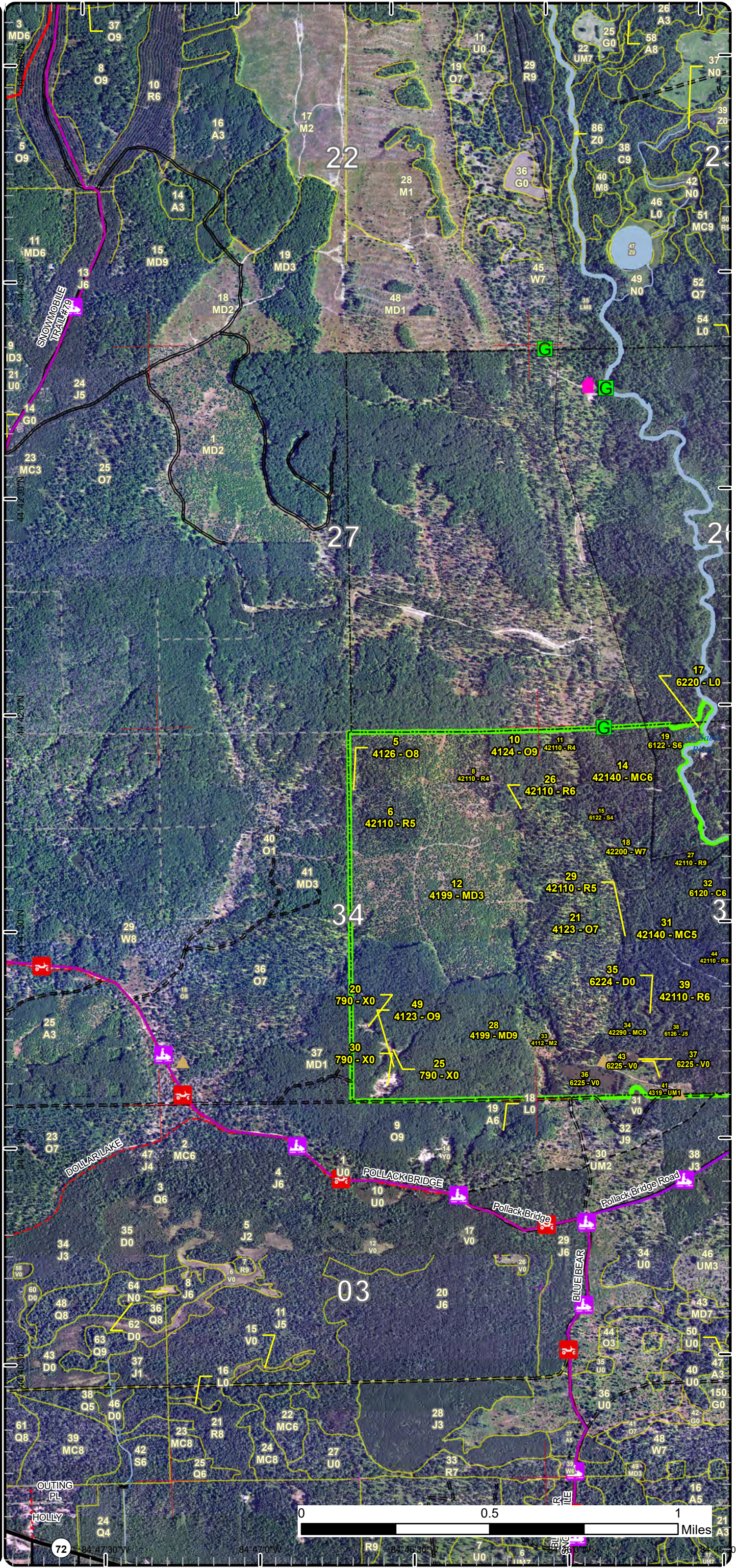


# Stand Boundary Map

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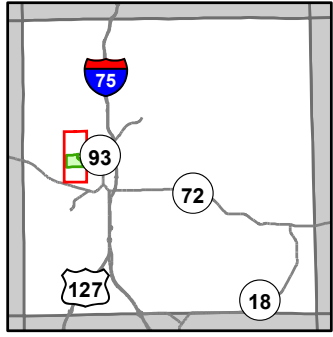
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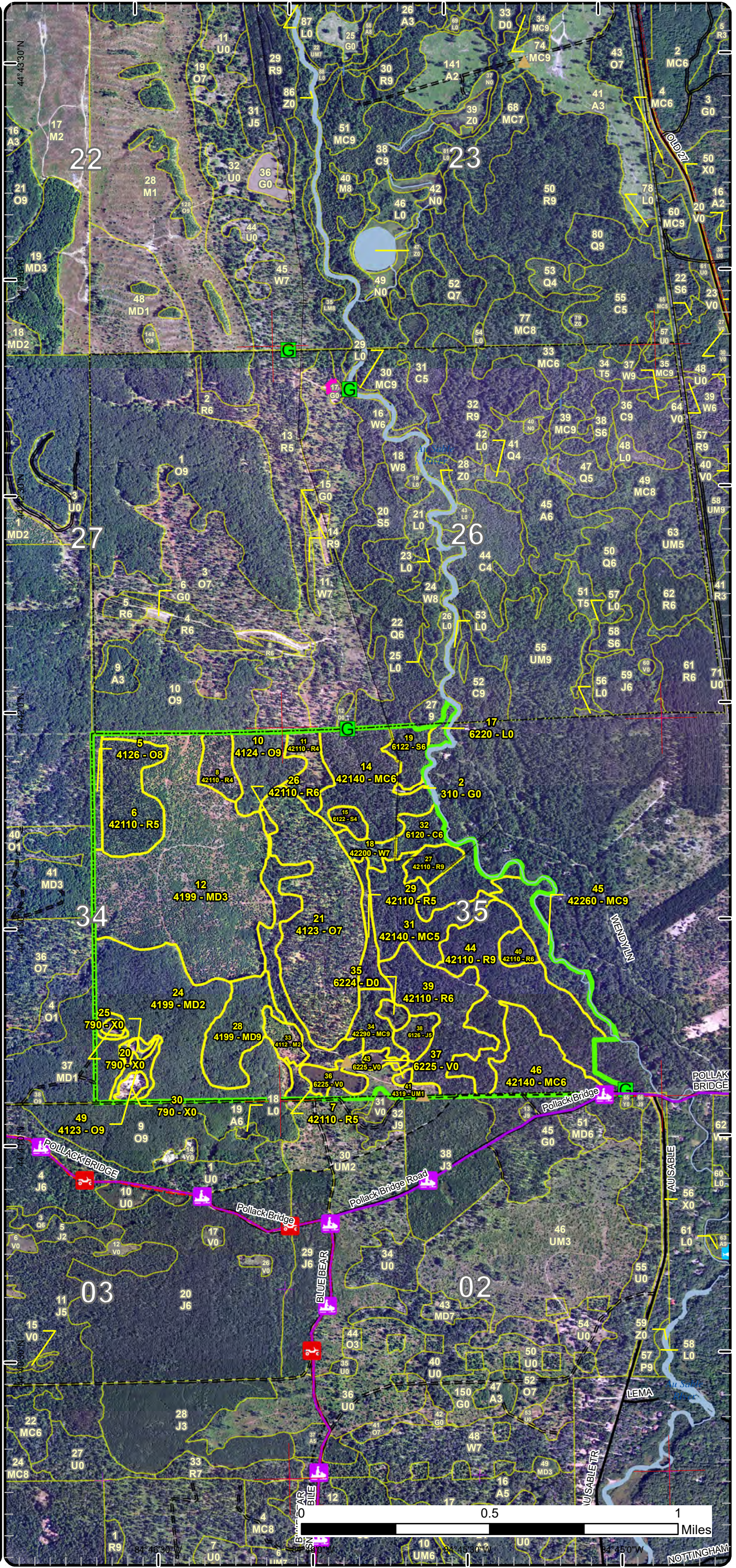


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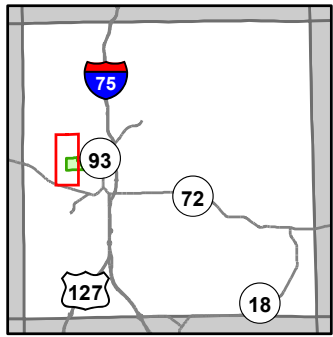


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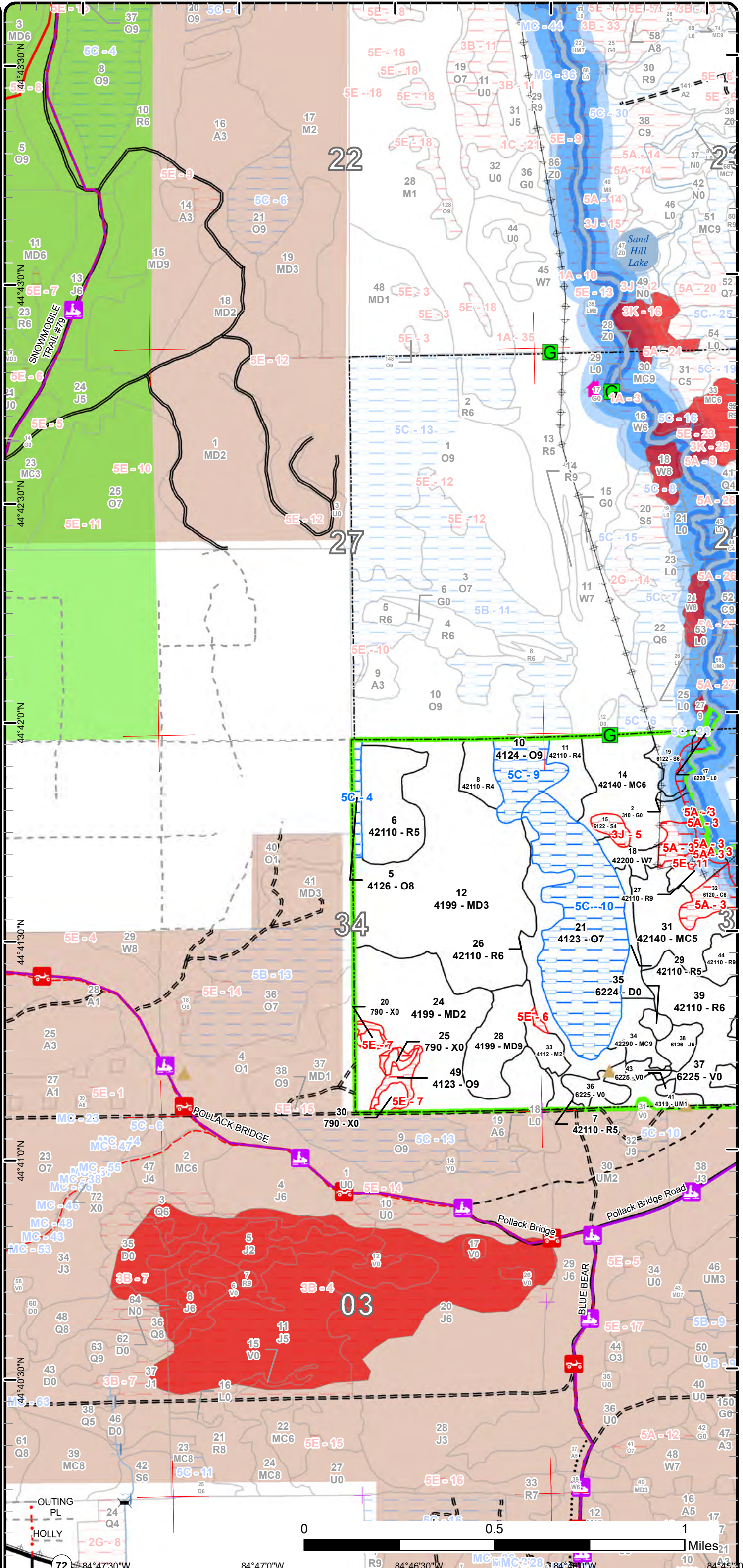


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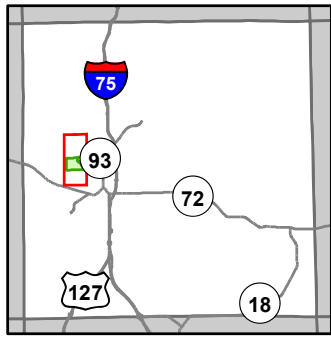
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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



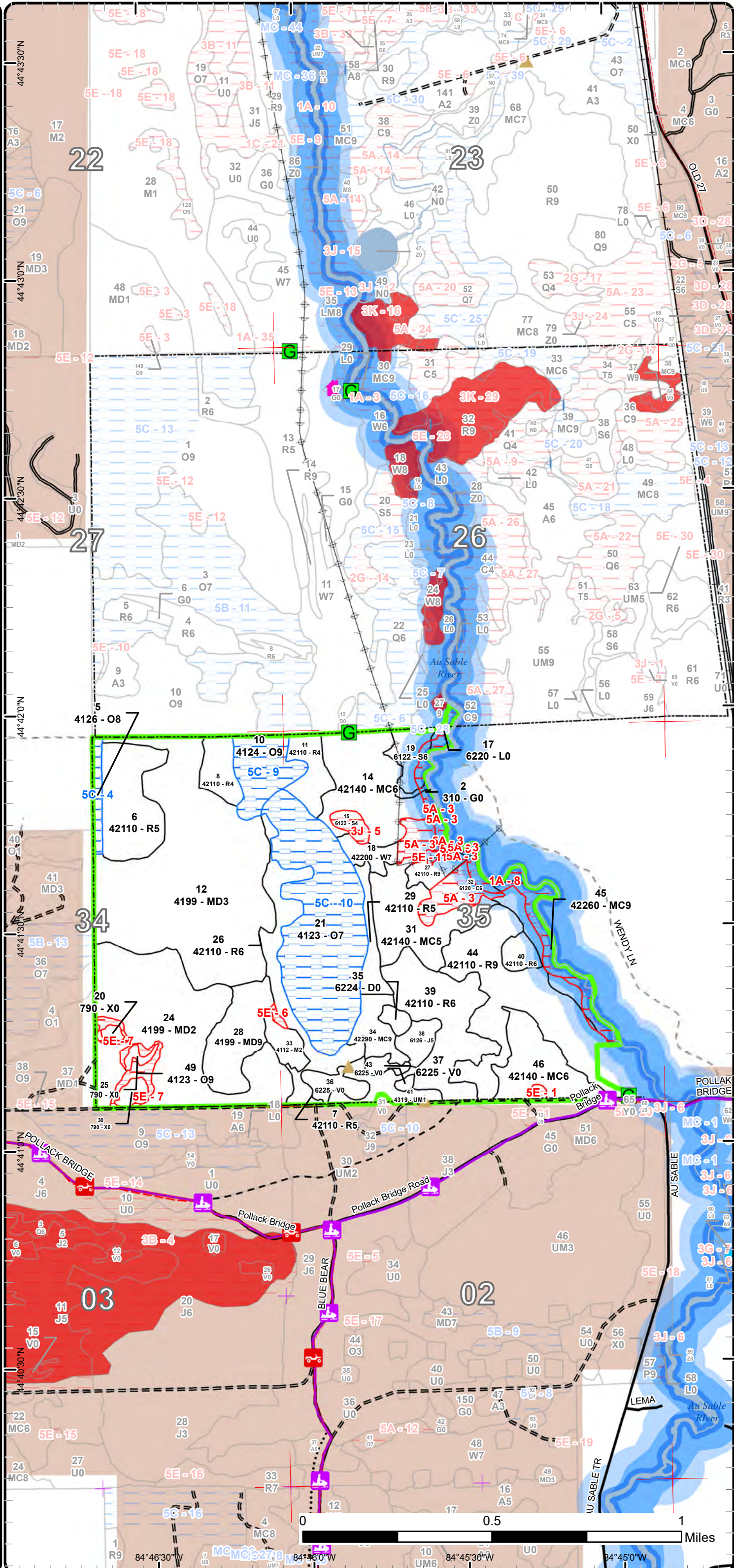


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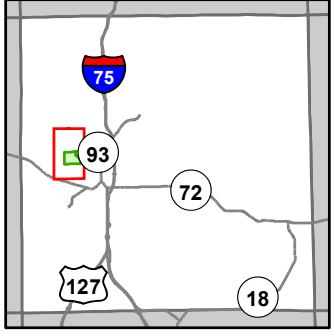
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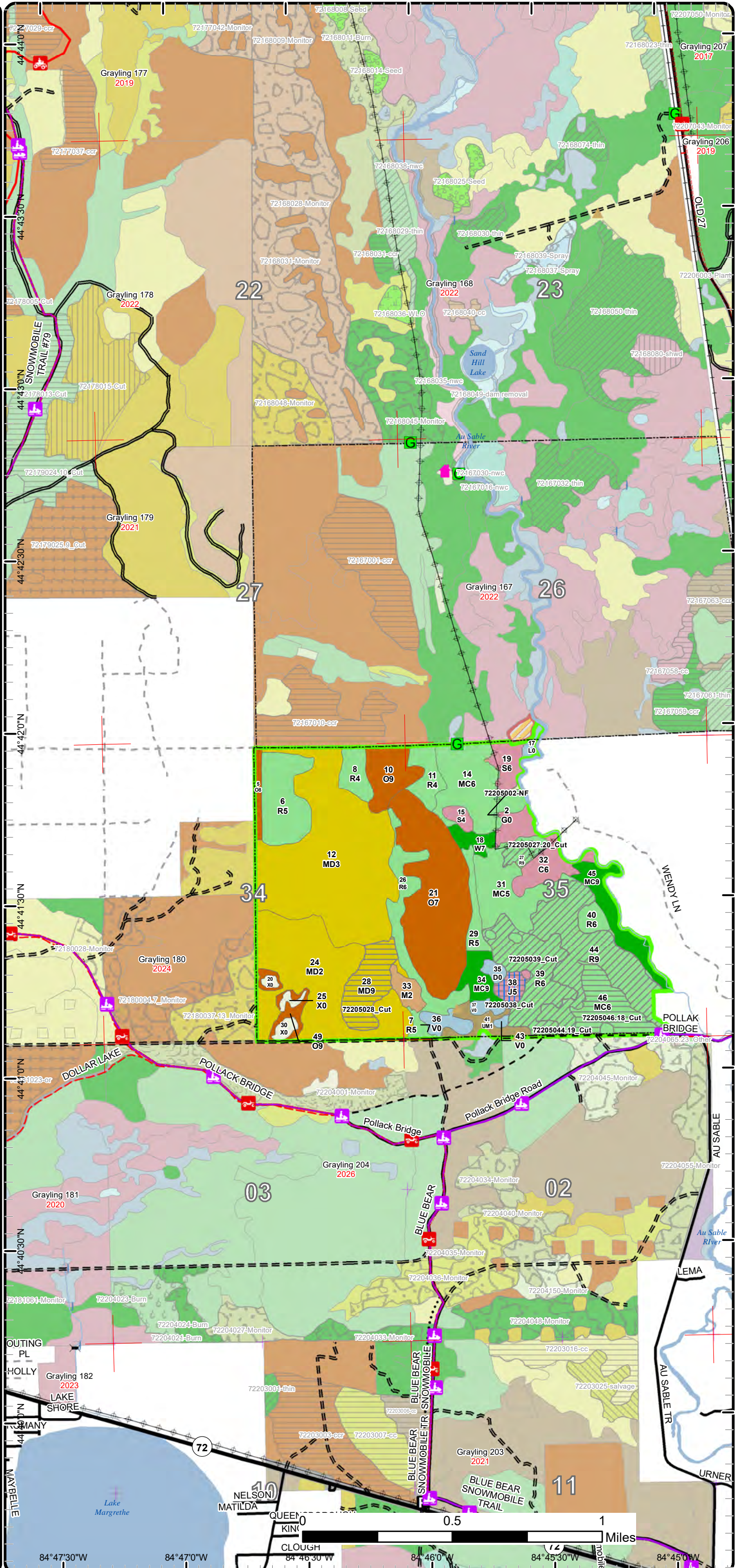


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Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Bare/Sparsely Vegetated	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	21
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	9	0	0	0	4	0	0	0	0	0	13
Mixed Upland Deciduous	0	79	125	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	226
Natural Mixed Pines	0	0	0	0	0	0	19	10	0	0	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Oak	0	0	0	0	0	0	0	0	0	0	0	105	0	0	0	0	0	0	105
Planted Mixed Pines	0	0	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	89
Red Pine	0	0	0	0	0	79	107	0	0	0	0	0	0	0	0	0	0	0	186
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>23</b>	<b>79</b>	<b>141</b>	<b>0</b>	<b>0</b>	<b>168</b>	<b>138</b>	<b>10</b>	<b>9</b>	<b>0</b>	<b>23</b>	<b>105</b>	<b>4</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>720</b>





## Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 205

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 718

Commercial Harvest - 145  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	0	0	0	6	0	0	0	0	0	6
Mixed Upland Deciduous	22	0	0	0	0	0	0	0	0	22
Planted Mixed Pines	23	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	94	0	0	0	94
<b>Total</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>145</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	145	0	0	0	0	0	0	0	1	146
Next Step	0	46	23	0	0	46	96	23	0	234
<b>Total</b>	<b>145</b>	<b>46</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>96</b>	<b>23</b>	<b>1</b>	<b>379</b>





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

2	72205002-NF	1.0	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the Williams Sand Trap access pad and dredged sand stockpile site. Use of the site must not interfere with the overhead powerline utility easement.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
27	72205027.20_ Cut	4.4	42110 - Planted Red Pine	Sawtimber Well	56	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin treatment was approved for the 2005 YOE, set up in 2006, and is currently on proposal 72-055-06-01. Additional marking outside of designated rows will be necessary for equipment operability in areas with tight row spacing and abrupt row direction changes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Note Natural Rivers restrictions. Old next step comments: None needed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
28	72205028_Cut	22.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	99	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except legacy pine and island retention. Apply grouse drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen with RM &amp; oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Draft treatment boundary has been edited to approximate the proposed retention amount.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>38</b>	<b>72205038_Cut</b>	5.6	6126 - Lowland Jack Pine	Poetimber Medium	55	81-110	Harvest	Seed Tree	6127 - Lowland Pine	Two-Aged	No
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Prescription Specs: Harvest merch stems except RP-WP-WO. Exclude the OFS wetland in the NE. The Rx boundary has been edited to approximate that exclusion.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Low to moderate stocking in a mix of JP-WP-RP, with a longer timeframe expected to achieve that regen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>39</b>	<b>72205039_Cut</b>	35.4	42110 - Planted Red Pine	Poetimber Well	44	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Designate-cut all trees (including dead standing) except RP-WP. Cut sapling-pole RP-WP only where necessary for operability, targeting the smallest stems, to be scaled and invoiced. Exclude the OFS wetlands in the NW. The Rx boundary has been edited to approximate those exclusions.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>44</b>	<b>72205044.19_Cut</b>	54.4	42110 - Planted Red Pine	Sawtimber Well	56	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Next Step Treatments:

Acceptable Regen:

Other Comment: Protect the fence along the south edge. Note Natural Rivers restrictions. Note snowmobile trail protection specs needed. Old next step comments: None at this time.

Site Condition

Proposed Start Date: 10/1 /2014





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
46 72205046.18_ Cut	22.9	42140 - Planted Mixed Pine	Poletimber Well	44	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest with reserves. Cut all stems 1" &amp; up except leave an approximately 3/4-acre retention island around the pocket of naturally-established RP in the stand's south-center.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Monitoring, Herbicide Use; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; Mon</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> A narrow, 2-acre strip of jack pine and oak was put on proposal 72-055-06-01. Trees were marked to leave with green in that strip. Remove that area (2005 YOE stand 56) from the proposal and set up according to the 2014 YOE stand 46 prescription. Protect the fence on the stand's south edge. Note snowmobile trail protection specs needed. Old next step comments: Plant RP, with site prep as needed to achieve full stocking. Plan site prep around maintaining an oak component (ie: 5-15%). Regen surveys.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2014</p>										

**Total Treatment Acreage Proposed: 145.7**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Joan Charlebois : Examiner

Compartment: 205  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	Dominant Site Conditions					
					5B	5C	1A	3J	5A	5E
6	6	0	0	Bare/Sparsely Vegetated						
10	10	0	0	Bog						
21	0	0	21	Cedar			6		15	
1	1	0	0	Herbaceous Openland			0			
6	6	0	0	Jack Pine						
3	0	0	3	Lowland Shrub			3			
13	7	0	6	Lowland Spruce/Fir			2	4		
226	226	0	1	Mixed Upland Deciduous	0	0				1
28	16	0	12	Natural Mixed Pines			12			
6	6	0	0	Northern Hardwood						
104	0	97	7	Oak		97				7
89	87	0	2	Planted Mixed Pines			1		0	1
186	184	0	2	Red Pine			1			1
3	3	0	0	Treed Bog						
10	10	0	0	Upland Mixed Forest		0				
6	6	0	0	White Pine						
718	567	97	54	Total Forested Acres	0	97	26	4	15	10
	79%	14%	8%	Relative Percent						

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5A: Not able to obtain desirable regeneration	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cedar swamp by the AuSable River.							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 205

Year of Entry: 2025

4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Left when all adjacent stands were cc'd or deciduous species-removed in the 2005 YOE. Stand is a narrow strip (2 chains wide) along the fence, with an older abandoned fenceline running up through the middle.							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small pond surrounded by bog.							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Potential long-term retention for the proposed draft harvest Rx							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention left when stand 24 was harvested in 2018.							
8	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers restricted cutting zone, 150 feet from river's edge.							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Oak stand on a better quality site within the compartment.							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 205

Year of Entry: 2025

10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	75	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Oak stand on a better quality site within the compartment.							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
2	310 - Herbaceous Openland	Nonstocked	1.0	0	Unspecified		William Sand Trap streambank workpad and temporary spoils stockpiling site. Last dredged Oct 2018 (F72-727).																																															
5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	4.8	105	1-50	N/A	Narrow stand between the RP plantation and the fence. Dry oak site, heavy to WO-NPO with some BRO and scattered WP-JP. NPO has been dropping out of the stand; snags and deadfalls common. Canopy closure runs toward the low end of 50-75%. Subcanopy has locally high cover in WO saplings.																																															
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6	42110 - Planted Red Pine	Poletimber Medium	27.9	48	51-80	N/A	RP had been interplanted through established oak cover when in private ownership. The deciduous overstory was removed in 2007 (#048-05), cutting merch stems except RP. Row spacing and direction vary widely. Plantation cover is discontinuous except for an intact patch in the north end. Deciduous sprout regen from the cut is working its way into the canopy. BAs ranged from 0-120, ave 80.																																															
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7	42110 - Planted Red Pine	Poletimber Medium	0.0	53	81-110	N/A	RP planted in at least two entries (within 5 years of each other) when in private ownership. Three-quarters of the plantation was row-thinned: the north 8.5 acres in 2007 (#054-06, also removing all JP-O-RM) and the south 10 acres in 2006 (#068-05); the middle 6 acres were not treated. The RP was planted in a valley at relatively tight row spacing except where the furrows swerved around scattered open-grown oak & RM. That deciduous residual tends to be large cull, breaking up. This stand's RP plantation acreage is reduced by inclusions: clearcut pockets, wetland buffer strips, uncut oak islands that were excluded from harvest, and two-track corridors. The second age (58 yrs) on the planted RP was recorded toward the stand's middle. RP SI 56, 64, ave 60.																																															
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8	42110 - Planted Red Pine	Poletimber Poor	9.4	47	1-50	N/A	RP had been interplanted through established oak cover when in private ownership. The deciduous overstory was removed in 2007 (#048-05), cutting merch stems except RP. The rows are discontinuous, with widely variable spacing & direction. The deciduous sprout regen is working its way into the canopy. BAs ranged from 0-80, ave 45.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	4124 - Red with White Oak	Sawtimber Well	17.6	104	81-110	N/A	Mature oak stand with minor RP-WP components (mostly in SE). The proportion in WO increases on the lower slopes. The overmature JP & NPO on the flats have been dying out. The RP was interplanted, and the WP seeded in from one SCWP. There is more RP-WP-RM by BA than canopy % due to their suppressed to intermediate canopy positions. Occasional BTA. Open below except for localized pockets of WP regen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		40	Log/XLog/Pole	14	104	White Pine		
Bigtooth Aspen		1	Log/Pole	10		Trace		
Northern Pin Oak		4	Log/Pole	12		Variable		
Jack Pine		3	Pole/Log	9		Sapling		
Red Maple		4	Pole/Sapling	6				
Red Pine		10	Pole/Sap/Log	7	48			
White Pine		8	Pole/Log	8				
White Oak		30	Log/Pole	12				
11	42110 - Planted Red Pine	Poletimber Poor	10.7	58	51-80	N/A	Mixed stand of mature NPO, overmature JP, and interplanted RP was harvested in 2007 (#054-06), cutting designated RP plantation rows and other species except WP. The RP had been planted when in private ownership; distribution is highly variable, ranging from solitary rows to more intact plantation patches. Residual overstory WP are scattered throughout. Canopy closure on 2/3rds of the stand runs 50-75%, and LDT on the rest, roughly averaging in the 25-50% category across the stand. Regen includes stump-origin O-RM and seeded-in pine. Sketchy rows of this plantation extend into the adjacent stands to the E & W.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		2	Pole	8		White Pine		
White Pine		20	Log/Pole	12		Trace		
Red Pine		75	Pole/Log	9	58	Variable		
Jack Pine		3	Pole	7		Sapling		
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12	4199 - Other Mixed Upland Deciduous	Sapling Well	125.0	16	Immature	N/A	Mature O-RM-A stand was final harvested in 2007 (#048-05), cutting stems 2"+ DBH. Regenerated to RM with significant oak & aspen components. The stump-origin oak is competitive and secure. Most of the single-stem origin oak (largely WO) has also recruited. Cover drifts off either side of 75% canopy closure. There are traces of residual planted RP on the perimeter.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		1	Pole/Sap/Log	7		Witch Hazel		
Red Maple		45	Sapling	2	16	Low		
White Oak		7	Sapling	3	16	5 - 10 feet		
Bigtooth Aspen		20	Sapling	3	16	Tall Shrub		
Quaking Aspen		5	Sapling	3	16			
Red Oak		20	Sapling	3	16			
Red Pine		2	Pole/Log/Sap	7				
14	42140 - Planted Mixed Pine	Poletimber Well	35.4	44	81-110	N/A	RP-WP were planted around residual JP-NPO before state acquisition. Row spacing & direction are highly variable; rows even crisscross in places. Planting species distribution also varies widely, from single-species patches to alternating rows of RP & WP. The residual JP & NPO are overmature, poor quality and breaking up. In addition to the mature residual and planted components, the stand has a significant amount of naturally-established immature WP & JP. The JP canopy record is split between overmature and immature cohorts. Occasional supercanopy WP & RP. The portion of the stand E of the powerline has only a trace of planted pine; most of that area has naturally-established WP. The stand is dotted with small bogs (OFS points) and picks up transition ground along the adjacent lowland stands. Trace of black spruce by lowlands. Canopy closure runs in the low end of 75-100%.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		2	Pole/Log/Sap	7		White Pine		
Red Maple		3	Pole/Log	8		Low		
Northern Pin Oak		3	Log/Pole/XLog	14		Variable		
Red Pine		40	Pole/Sapling	7	44	Sapling		
Jack Pine		30	Log/Pole	11	102			
White Pine		20	Pole/Log	8	47			
White Oak		2	Log/Pole	10				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>15</b>	6122 - Black Spruce	Poletimber Poor	3.5	113	1-50	N/A	Stand of spruce & WP that has been slowly colonizing a pair of bogs. The two bogs are separated by a shallow dry ridge that is included in the stand boundary. The north end is not much above treed bog status and contains a small lens of open water. Given the stand's progressive colonization, it is likely beyond 2-aged status.																																																									
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<b>17</b>	6220 - Alder/willow	Nonstocked	2.7		Unspecified	No	Tag alder with scattered spruce, WP & BF. Approximately 100 trees (across the entire F72-707 FTP area) were chainsaw-felled and placed in-stream with a portable winch for trout habitat. Work was largely completed in 2013, with ongoing monitoring and maintenance for the remainder of the FTP period.																																																									
<b>18</b>	42200 - Natural White Pine	Sawtimber Poor	5.8	55	1-50	N/A	Dry portions of the stand were harvested in 2007 (#054-06), spec'd to cut 2"+ DBH except WP. The harvest removed mostly JP, leaving WP scattered across the stand, a few rows of planted RP in the west end, JP-O rimming the wetlands, and spruce-tamarack on the lowest ground. The stand is dotted with small wetland depressions. The understory is slowly filling in with pine & oak.																																																									
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<b>19</b>	6122 - Black Spruce	Poletimber Well	9.2	70	81-110	N/A	Lowland spruce stand with a significant WP component. Also scattered RM, PB, xlog WP-RP, and overmature JP. There's a minor overmature spruce component but most of the spruce is 60-80 years old. Approximately 100 trees (across the entire F72-707 FTP area) were chainsaw-felled and placed in-stream with a portable winch for trout habitat. Work largely completed in 2013, with ongoing monitoring and maintenance for the remainder of the FTP period.																																																									
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<b>21</b>	4123 - Red Oak	Sawtimber Poor	74.9	103	1-50	N/A	Mature oak stand on a narrow hill was shelterwood harvested in 2007 (#054-06), cutting merch stems except WP & green-marked (cruise residual 35 BA). Mostly RO, with WO-WP-RP increasing downslope toward the perimeter. Regen is RM with small components of secure stump-origin oak, and patches of aspen on the east side. Only a minority of the single-stem origin oak (WO) is secure; most of it is still vulnerable to browse.																																																						
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<b>24</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	78.5	5	Immature	N/A	Mature O-A stand on rolling terrain was final harvested in spring 2018 (#620-15), cutting stems 1"+ DBH except RP, WP, sapling O-A, and boundary-excluded retention (now stands 49 & 50). Regenerated to RM with significant aspen & oak components. The stump-origin oak is competitive and secure. There is heavy deer traffic within the stand but they are only side-pruning the outer stems of stump clumps, allowing the central stems to recruit. The single-stem origin oak (mostly WO) is still vulnerable to browse. Canopy closure varies from 75-100% where predominantly A-RM, 50-75% where mainly RM-O, and 25-50% where majority oak, ave 50-75% closure across the stand. Passed overall to regen M.O. A narrow peninsula of stand 33's 2006 harvest was merged into this stand.																																																						
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<b>25</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.6		Unspecified	No	Old borrow pit with encroaching tree cover is in process of revegetating. Illegal off-road traffic is not as heavy as in stand 30.																																																						
<b>26</b>	42110 - Planted Red Pine	Poletimber Well	24.8	55	111-140	N/A	RP planted in at least two entries (within a few years of each other) when in private ownership. Three-quarters of the plantation was row-thinned: patches of the north 8.5 acres in 2007 (#054-06, also removing all JP-O-RM) and the south 10 acres in 2006 (#068-05). The middle 6 acres were not treated; the NPO there has been dropping out of the canopy. The plantation is narrow and fragmented by the road, patches of deciduous cover, and a bog buffer. BAs varied widely across the stand, from 50-190, but less than a quarter reached levels that warranted thinning. Poorer-stocked plantation patches are further into the saw class, but the stand on average is still largely pole-sized.																																																						
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<b>27</b>	42110 - Planted Red Pine	Sawtimber Well	6.8	56	171-200	N/A	Five acres of RP plantation fragmented by inclusions: two-track road, overhead powerline corridor, and former cabin site opening. Concrete slab remains in stand's NE by the AuSable River. Small OFS wetland with black spruce in north-center. Most of the stand's older naturally-established oak, RM, WP & JP are concentrated on the stand's perimeter. Core of the plantation has good RP stocking and relatively straight rows. Second age estimate based on adjacent stands' similar overmature JP-NPO components. Stand has crossed the threshold (30% in sawtimber stems) where it has to be called log overall.																																																						
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<b>28</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.8	99	111-140	N/A	Fairly heavy removal evident on the 1963 air photos, when the tract was in private ownership, resulting in two age classes across the major species. Most of the aspen and a minor amount of the O-RM dates to that disturbance; those oak stump sprouts weeded down to 1-2 stems/clump and are large pole-small saw in size. Most of the oak is mature residual. The stand has a larger and older RM component than is typical for the area. The stand's NE on the flats has poorer quality RM & hybridized oak. The traces of RP include some legacy stems. Carried forward previous inventory ages for all species. The younger oak cored to the same age as the aspen.																																																					
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<b>29</b>	42110 - Planted Red Pine	Poletimber Medium	7.8	57	111-140	N/A	RP planted when in private ownership. Was thinned in 2007 (#054-06), cutting designated rows and all JP-O-RM. The plantation is narrow, with discontinuous rows, and is further fragmented by an old RR grade that runs the length of it. Naturally-established WP and an occasional RP are scattered across the stand. A couple rows of this plantation wander into stand 18. BAs vary widely, with less than a quarter of the stand at levels that warrant thinning.																																																					
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<b>30</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.7		Unspecified	No	Old borrow pit with encroaching tree cover. Illegal traffic through a breach in the Williams Tract fence is slowing the re-vegetation process.																																																					
<b>31</b>	42140 - Planted Mixed Pine	Poletimber Medium	28.6	48	81-110	N/A	WP & RP were planted a few years apart around scattered residual JP-RP-WP-NPO before state acquisition. Row spacing & direction are highly variable. Planting species distribution also varies widely, from single-species patches to alternating rows of RP & WP. The residual JP & NPO are overmature, poor quality and breaking up. In addition to the planted & minor mature residual components, the stand has a significant amount of naturally-established JP in the same cohort as the planted pine. Carried forward the 2015 YOE RP & JP ages. The stand is dotted with small bogs and picks up an acre of mature xlog WP on low ground in the NW. A few rows of stand 29's plantation wander into this stand. Traces of black spruce & tamarack occur adjacent to lowland stands.																																																					
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<b>32</b>	6120 - Lowland Cedar	Poletimber Well	21.4	127	141-170	N/A	Cedar stand with spruce, WP, and minor amounts of tamarack, fir, RM & PB. The stand's core on saturated ground has smaller-diameter, top-dying cedar. The perimeter picks up drier transition ground where everything is larger-diameter and healthier. An ephemeral stream originates in the stand and flows out to the river (OFS point). Approximately 100 trees (across the entire F72-707 FTP area) were chainsaw-felled and placed in-stream with a portable winch for trout habitat. Work was completed in 2013, with ongoing monitoring and maintenance for the remainder of the FTP period. May 12, 2018: 50 cedar seedlings were planted and caged by Cedars for the AuSable volunteers along a 600-ft stretch of the AuSable River south of the old cabin site (C72-820, Site B_2018 Williams Tract). 50 cedar seedlings were planted & caged May 2019 in a 500-foot stretch starting 170 feet south of the powerline corridor.																																																					
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<b>33</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	6.2	17	Immature	N/A	Mature O-RM-JP stand was final harvested in 2006 (#068-05), cutting trees 2"+ DBH. Regenerated heavy to RM, with a small oak component and traces of JP. The stand's SW acre that was poorly-stocked pre-harvest remains sparse. The harvest's narrow south panhandle was merged into stand 24. Passed to Mixed Upland Deciduous M.O.																																															
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<b>34</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.7	64	81-110	N/A	Mixed pine-oak stand is dotted with small wetland depressions (OFS pts) and borders two larger bogs. WP has been increasing in the canopy as the overmature JP & NPO drop out. Snags and deadfalls are common. The larger RP-WP are concentrated along the wetland edges.																																															
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<b>35</b>	6224 - Treed Bog	Nonstocked	2.8		Unspecified	No	Leatherleaf bog with an island of WP-JP-RP-black spruce in the middle.																																															
<b>36</b>	6225 - Bog	Nonstocked	6.2		Unspecified	No	Leatherleaf bog with JP-WP on the margins & colonizing the interior. Old RR grade crosses E end. Two small bogs on the N and SW edges are physically cut off from the main bog by low ridges but are included within the stand boundary.																																															
<b>37</b>	6225 - Bog	Nonstocked	2.6		Unspecified	No	Leatherleaf bog with colonizing JP.																																															
<b>38</b>	6126 - Lowland Jack Pine	Poletimber Medium	6.0	55	81-110	N/A	JP stand on ground with a seasonal high water table. The JP cover is mostly poles in their mid-50's, with a minor overmature saw component. RP-WP of all sizes are unequally distributed across the stand. Traces of NPO & WO. OFS point in the NE is a small wetland cut off by a shallow ridge with a row of planted RP.																																															
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<b>39</b>	42110 - Planted Red Pine	Poletimber Well	37.3	44	111-140	N/A	RP was planted around varying levels of residual JP-NPO before state acquisition. Row direction is variable and spacing between rows is wide where pockets of residual JP or NPO were avoided. The JP is 2-aged, with a pole component a little older than the planted pine, and overmature residual JP. The two age classes of JP had to be merged into one canopy record due to a MiFI "rule". The NPO & overmature JP have been breaking up. Occasional naturally established xlog RP. The stand's NW grades down onto ground closer to the water table; two small bogs occur there.																																															
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<b>40</b>	42110 - Planted Red Pine	Poletimber Well	5.1	44	81-110	N/A	RP was planted around varying levels of residual NPO, JP & RP before state acquisition. Row direction is variable and spacing between rows is wide where pockets of residual were avoided. The RP is suppressed to subcanopy stature where it was planted through residual. The WP & JP components are majority pole and closer in age to the planted pine than the residual. The NPO has been breaking up.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine	10	Pole	7			White Pine		Low	Variable	Sapling	
Red Maple	1	Pole	8			Red Pine	Low	10 - 20 feet	Sapling		
White Pine	15	Pole/Sap/Log	7								
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White Oak	4	Log/Pole	11								
<b>41</b>	4319 - Mixed Upland Forest	Sapling Poor	9.8	17	1-50	N/A	Overmature JP-NPO stand was final harvested in 2006 (#068-05), cutting trees 2"+ DBH except for bog buffers that have residual JP, NPO & WP. The overmature JP-NPO in the uncut buffers is dying out. Regen from the cut is patchy and includes JP, WP, oak & RM. The best JP regen is in the furrows that were plowed in to reinforce the 2006 timbersale road closure.				
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Black Cherry	4	Sapling	2	17		Black Cherry		Low	5 - 10 feet	Tall Shrub	
Jack Pine	20	Log	10	101							
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Northern Pin Oak	10	Sapling	2	17							
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<b>43</b>	6225 - Bog	Nonstocked	1.0		Unspecified	No	Leatherleaf bog rimmed with JP-WP-NPO.				
<b>44</b>	42110 - Planted Red Pine	Sawtimber Well	56.4	56	141-170	N/A	RP was planted around residual JP-NPO (scattered & in small pockets) before state acquisition. Areas with decent plantation integrity alternate with patches where rows swerve widely around mature NPO, JP & WP. Abrupt row direction changes not uncommon. The overmature oak & JP have been breaking up. On contract for row-thinning, with additional stems marked to cut for clearance outside of operational rows.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak	5	Log/Pole/XLog	13			Black Cherry		Low	< 5 feet	Tall Shrub	
White Pine	2	Pole/Log/XLog	9			White Pine	Trace	Variable	Sapling		
Red Pine	85	Pole/Log	9	56							
Jack Pine	8	Pole/Log	8								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>45</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	18.6	58	81-110	N/A	Upland stand has a flooded swale in the NW and picks up low ground with tag alder along the river (traces of cedar, spruce & fir occur there also). The majority dry ground has variable cover in naturally-established WP, RP, & RM, with traces of oak, paper birch & aspen. The WP & RP have 2+ age classes in the canopy. The WP understory is self-thinning, in addition to small pockets collapsing entirely. A few sketchy rows of the adjacent RP plantation extend into this stand. Under F72-707, approximately 100 trees (across the entire FTP area) were chainsaw-felled and placed in-stream with a portable winch for trout habitat. Work was completed in 2013, with ongoing monitoring & maintenance for the remainder of the FTP period. Volunteers hand-planted & caged 50 cedar seedlings through the Cedars for the Au Sable project. The Mason Griffith Chapter of Trout Unlimited sponsored the planting. This was phase four in a multiple-year planting project. Williams Tract Site D_2021 covers a 550 foot stretch of the river starting at 44.69036, -84.75339 and ending at 44.68966, -84.75168 (see Site D map).																																																						
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<b>46</b>	42140 - Planted Mixed Pine	Poletimber Well	24.9	44	81-110	N/A	RP was interplanted through an area with considerable JP & oak residual before state acquisition. The stand is two-aged, with a cohort of planted RP & seeded-in JP and another of overmature JP-NPO. Rows serpentine, with wide spacing as they weave around pockets of residual. Where the planted RP is most suppressed, it is recordable only in the subcanopy. The NPO & overmature JP are breaking up. Naturally-established older RP are scattered across the stand and in a small pocket on the south side. Sketchy rows of RP from the adjacent older plantation occasionally extend into this stand. Approved harvest Rx from the 2015 YOE is currently on contract.																																																						
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<b>49</b>	4123 - Red Oak	Sawtimber Well	7.2	105	81-110	N/A	This stand was split off as retention when stand 24's was harvested in 2018. The islands of mature oak encompass three former borrow pits.																																																						
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